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L 17654-66 EWT(1) ACC NR: AP6002723 SOURCE CODE: UR/0056/65/049/006/1824/1830 AUTHORS: Inopin, Ye. V.; Tishchenko, B. I.; Shebeko, A. V. ORG: Physicotechnical Institute, Academy of Sciences UkrSSR (Fiziko-tekhnicheskiy institut Akademii nauk UkrSSR) TITLE: Description of inelastic diffraction scattering by the com-SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 49, no. 6, 1965, 1824-1830 TOPIC TAGS: particle diffraction, inelastic scattering, scattering cross section, alpha particle reactions ABSTRACT: A new method, which has recently been proposed by one of the authors (Inopin, ZhETF v. 48, 1620, 1965) for the description of elastic diffraction scattering by composite nuclei, and which is shown in a companion paper (Inopin, with A. A. Kresnin ZhETF v. 49, 1796, 1965, ACC NR: AP6002720) to be in agreement with the available experimental data, is used to obtain a unified description of elastic 1/2

L 17654-66

ACC NR: AP6002723

and inelastic scattering of spinless particles. A simple analytic expression for the inelastic scattering cross section is derived on the basis of the complex angular momentum method. The S-matrix parascattering in this paper. The expression obtained yields the well known Blair phase rule, for which a more rigorous proof is obtained in this paper than in the past. The results are compared with experiments on the scattering of a particles by five different nuclei (Mg 14 Ni 58, Zn 66, Sr 88), and the comparison indicates satisfactory qualitative agreement between the theory and the experimental preprint of their paper before publication, and to A. A. Kresnin for valuable discussions. Orig. art. has: 5 figures, 16 formulas and

SUB CODE: 20/ SUBM DATE: 02Jun65/ ORIG REF: 004/ OTH REF: 012

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ACC NR: AP6020225 SOURCE CODE: UR/0056/66/050/006/1674/1681 4/6
AUTHOR: Tishchenko, B. I.; Shebeko, A. V.

ORG: Physicotechnical Institute, Academy of Sciences, Ukrainian SSR (Fizikotekhnicheskiy institut Akademii nauk Ukrainskoy SSR)

TITLE: Contribution to the theory of diffraction scattering of particles by nuclei based on the method of complex angular moments

SOURCE: Zh eksper i teor fiz, v. 50, no. 6, 1966, 1674-1681

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TOPIC TAGS: particle diffraction, Coulomb scattering, S matrix, elastic scattering, scattering cross section

ABSTRACT: Expressions for elastic and inelastic diffraction scattering of particles by nuclei, involving the excitation of collective states, have been obtained by the method of complex angular moments. It has been assumed that the modulus and the phase shift of the S matrix may possess poles in the complex angular momentum plane. It has been shown that the presence of poles in the S matrix phase near the

Card 1/2

poles of its modulus and the Coulomb interaction explains a number of interesting features of the behavior of the differential scattering cross sections, such as the decrease of oscillation amplitudes of the cross sections with growth of the nuclear charge, the possibility of inelastic scattering cross-section oscillations when oscillations are absent in elastic scattering, and the decrease of oscillation amplitude with the growth of the scattering angle. It has been shown that "competition" between the Coulomb and nuclear phases can explain the "cross-section drop" (the presence of one or two cross-section minima which are much lower than the adjoining ones). It has been mentioned that the value $\delta(t_0)$, where t_0 is the boundary nuclear angular momentum, can readily be estimated. The authors thank Ye, V, Inopin for his interest in this work and for a number of valuable discussions. Orig. art. has: 33 formulas. [Based on authors' abstract] [NT]

SUB CODE: 20/ SUBM DATE: 28Jan66/ ORIG REF: 004/ OTH REF: 006/

Calculation of the burn-out of lean coal and anthracite in coal dust furnaces. Teploenergetika ll no.5:83-86 My'64.

1. Odesskiy tekhnologicheskiy institut.

(MIRA 17:5)

Approximate calculation of the burning-out of a flame tongue of pulverized lean or hard coal. Trudy Od. tekh. inst. 14: 47-54 '62. (MIRA 16:12)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810017-6"

GOKHSHTEYN, D.P., doktor tekhn. nauk; DEKHTYAREV, V.L., kand. tekhn. nauk; OLESEVICH, Ye.K., inzh.; TISHCHENKO, B.S., inzh.; KHALAYDZHI, V.N., inzh.; RYABOVA, A.S., inzh.; BYKOV, V.N.; KOZOREZ, A.I., inzh.

Carbon dioxide system with medium power output. Energomashinostroenie 10 no.11:20-22 N *64 (MIRA 18:2)

KISLITSYN, A.; TISHCHENKO, D.

Pitch formation in the distillation of wood tars. Zhur. prikl. khim. 33 no.8:1909-1911 Ag '60. (MIRA 13:9)

1. Lesotekhnicheskaya akademiya, Leningrad.
(Pitch) (Wood tar)

L 27882-05

ACCESSION IR: ATROCASSA

AUTHOR: Lish henge, B. ..

TITLE: Estimate of the factors influencing the process of combustion of loan coal and anthracite in pulverized-coal belief furnament

SOURCE: AN UKRUEF. Institut teknai brakey teplofiziki. Teplofizika i teplotekhnika (Thermophysics and heat engineering). Elev, Naukova dumka, 1984, 1984, 1984

TOPIC TAGS: combustion analysis, burning rate measurement, coal

ABSTRACT: The author points out that incomplete ombustion of pulverized lear coal and anthracite in electric-station botters can reach 40%, that there are no reliable theoretical means of calculating the degree of combustion, and that the ideal station tests fail to take account of numerous the tors. We expect with an new method for calculating the second station of the theory of combustion of the transfer of t

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ACCESSION NR: AT5004224		<u> </u>
to the published test repends to the formula vicinit of	lete combustion was checked rs in various electric state orts. The experimental result. The experimental result.	
SUEMITTED: 10Augfl	ENGL: 00	NIP TODAY NO
16: FAT V: 012		
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AUTHOR: Gokhshroyn, D. P. Doutor of technical ociences's Debbywarev, V. D. (Carelliate of technical occupants). It is chery, D. I. (Mozorian). The control of the control o

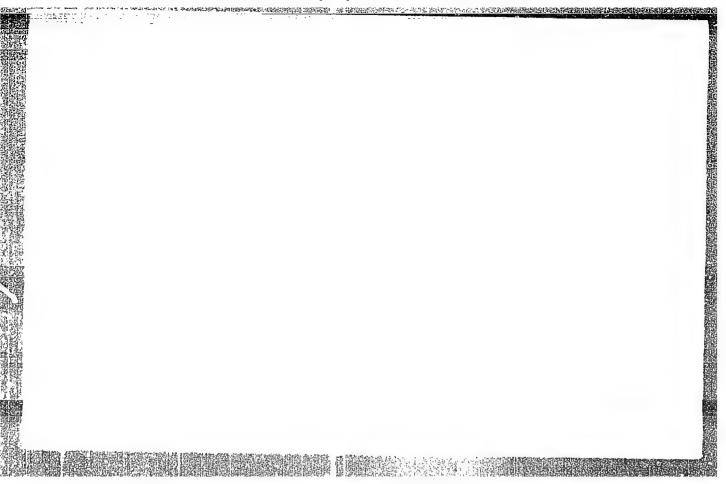
TITLE: Medium power carbon dioxide power installation

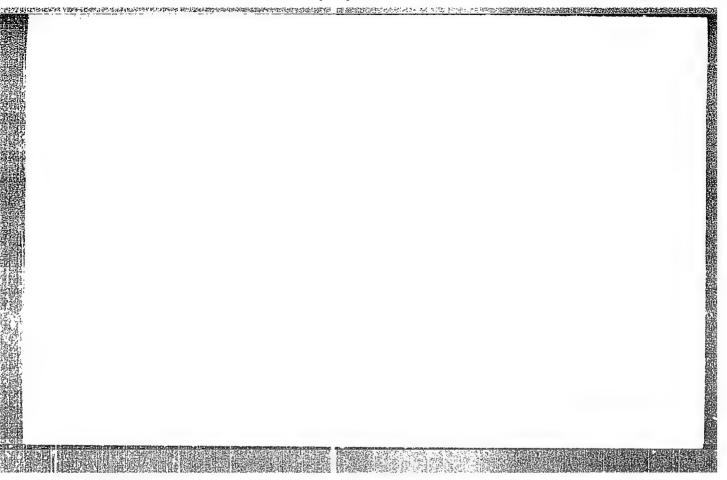
SOURCE: Energomashinostroyeniye, no.11, 1964, 20-22

TOPIC TAGS: electric power plant, carbon dioxide, electric power source

ABSTRACT: Theoretical principles for carbon dioxide power installations worked out at the Odessa Technological Institute imeni M. V. Lomonosov have shown the possibility for building high power compact units which are more economical than steam and gas turbines. Results of research on an estion of this type with a power of 's Mw. the UNDU-51, show that the efficiency adventage of the carbon dioxide installation over steam units increases with a transition from him to relieve tower.

Card 1/3





S/185/60/005/004/001/021 D274/D306

AUTHORS:

Kresnin, A.A. and Tishchenko, B.Y.

TITLE:

Polarization effects in the scattering of electrons

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 5, no. 4, 1960,

The scattering cross-section, the azimuthal asymmetry and the polarization of the scattered electrons are calculated. Electron scattering by nuclei with Yukawa charge-density distribution is considered in the second Born-approximation. The Yukawa chargedensity distribution is

$$\rho(r) = \frac{x^2}{4\pi} \cdot \frac{e^{-xr}}{r}$$

(4)

For describing the polarization of the scattered electrons, the method of density matrices is used. For the cross-section one ob-Card 1/6

S/185/60/005/004/001/021 D274/D306

tains

$$\frac{d\sigma}{d\Omega} = \left(\frac{Ze^2}{2mv^2 \sin^2 x}\right)^2 \frac{(1 - v^2)(1 - v^2 \sin^2 x)}{(1 + \alpha^2 \sin^2 x)^2} \times$$

$$\times \left\{ 1 + Ze^{2}v \frac{1 + \alpha^{2}\sin^{2}x}{1 - v^{2}\sin^{2}x} \sin x \left[\delta_{1} - (1 - v^{2})^{\frac{1}{2}} \operatorname{tgx} \left(\vec{\zeta}_{1}^{\circ \vec{n}} \right) \delta_{2} \right] \right\},$$
 (18)

where δ_1 and δ_2 are given by expressions involving v^2 , α and trigonometric functions of x, (x being half the scattering angle β , and $\alpha = 2p/x$). If $\alpha \gg 1$, the cross section is

$$\frac{d\sigma}{d\Omega} = \left(\frac{Ze^2}{2mv^2 \sin^2 x}\right)^2 \frac{(1-v^3)(1-v^2 \sin^2 x)}{(1+\alpha^2 \sin^2 x)^3} \times \left\{1 + Ze^2v \frac{1+\alpha^2 \sin^2 x}{1-v^2 \sin^2 x} \sin x \left[\pi \left(1-\sin x - \frac{2\alpha^2}{v^2} \sin x (1-v^2 \sin^2 x)\right) + 2(1-v^2)^{\frac{1}{2}} \frac{\sin^2 x}{\cos x} \left(\ln \sin x + \alpha^2 (1-\sin x)\right) (\zeta_i^0 n)\right]\right\}.$$
(22)

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S/185/60/005/004/001/021 D274/D306

For $\alpha=0$, formula (22) coincides with the well-known formula for scattering cross-section of electrons in a Coulomb field. For $\alpha\ll 1$, another expression for the cross-section is obtained. In case of positron scattering, Ze² has to be replaced by (-Ze²). If a polarized electron beam is scattered, azimuthal asymmetry arises, muthal asymmetry by

 $\gamma_{i} = \frac{\frac{d^{2}}{d\Omega}(\varphi = 0) - \frac{d\sigma}{d\Omega}(\varphi = \pi)}{\frac{d\sigma}{d\Omega}(\varphi = 0) + \frac{d\sigma}{d\Omega}(\varphi = \pi)},$ (25)

one obtains

 $\gamma_{i} = -Ze^{2}v(1-v^{2})^{1/4}\frac{1+\alpha^{2}\sin^{2}x}{1-v^{2}\sin^{2}x}\frac{\sin^{2}x}{\cos x}\delta_{2}(\zeta_{i}^{o}n). \tag{26}$

For the polarization of the scattered electrons one obtains

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S/185/60/005/004/001/021 D274/D306

$$\zeta_{j}^{o} = \zeta_{i}^{o} + \frac{(\gamma - 1)\sin\theta}{\mu} \{ [a_{1}(A_{0} + 2A_{1}) + 2b_{1}B_{1} - 2c_{1}B_{2}]k +$$
(29)

$$+[a_1(A_0+2A_1)+2b_2B_1-2c_2B_2]i-2c_3B_2n]$$

 μ , a, b, c, A and B are given by expressions involving α , β , p, Z, e, γ and E, where

$$\gamma = \frac{E}{m} = \frac{1}{\sqrt{1 - v^2}}$$
(32)

$$\vec{k} = \frac{\vec{p}_1}{|\vec{p}_1|}; \vec{l} = [\vec{n}\vec{k}]$$
(33)

In the case of scattering of unpolarized electrons, formula (29)

$$\vec{\zeta}_{f}^{o} = Ze^{2}v \left(1 - v^{2}\right)^{\frac{1}{2}} \frac{\sin^{2}x \ 1 + \alpha^{2}\sin^{2}x}{\cos x \ 1 - v^{2}\sin^{2}x} \delta_{2}\vec{n}$$
(34)

An analysis of formula (34) shows that the polarization and azi-

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S/185/60/005/004/001/02L D274/D306

muthal asymmetry of electrons scattered by a nucleus with finite radius is smaller than in the case of electrons scattered by a Coulomb field. With increasing α these quantities decrease; for $\alpha = \alpha_0$, they become zero, and with α further increasing, they change sign. It is noted however, that at the points where δ_2 vanishes, the higher Born-approximations have to be taken into account; therefore, the results are only fully reliable for $\alpha < \alpha_0$. The smaller polarization and azimuthal asymmetry in the case of scattering by nuclei of finite size, as compared to point nuclei, is a result of absence of singularities of the interaction potential between electrons and nuclei of finite radius. Hence such a decrease should take place independent of the charge-density distribution in the nucleus. This conclusion is of a general character and does not depend on the use of the second Born-approximation. There are 7 references: 2 Soviet-bloc and 5 non-Soviet-bloc. The references to the english-language publications read as follows: N.F. Mott, Proc. Roy. Soc., Al24. 425, 1929; N.S. Sherman, Phys. Rev., 103, 1601, 1956; R. Dalitz, Proc. Roy. Soc., A206, 509, 1951; R.R. Lewis, Phys. Rev., 102, 537,

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Polarization effects...

S/185/60/005/004/001/021 D274/D306

1956,

ASSOCIATION:

Fizyko-tekhnichnyy instytut AN USSR (Physicotechnical Institute AS $\text{Uk}_{\text{T}}\text{SSR})$

SUBMITTED:

November 19, 1959

Card 6/6

CIA-RDP86-00513R001755810017-6" APPROVED FOR RELEASE: 07/16/2001

L 17021-63

EWT(m)/BDS AFFTC/ASD

S/185/63/008/004/003/015

AUTHOR:

Tishchenko, B. Y.

TITLE:

Determination of the charge density of light nuclei with a generalized model

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 8, no. 4, April 1963, 431-439

The author assumes that the nucleons of the nucleus move in a deformed axisymmetrical potential and that their interaction is accounted for by this potential, so that the charge density of the nucleus amounts to the sum of densities created by the individual nucleons. The charge density created by a single nucleon is determined by the qaudratic modulus of its wave function describing the motion of the nucleon in a deformed axially symmetrical potential. He expands the expression for charge density into a series by Legendre polynomials. The first two coefficients of this expansion determine the mean square radius and quadrupole moment of the nucleus, respectively. The author supplies formulas for finding these values readily for nuclei with $z \le 20$. ASSOCIATION: Fizyko tekhnicknyy instytut AN URSR (Physico-Technical Institute of

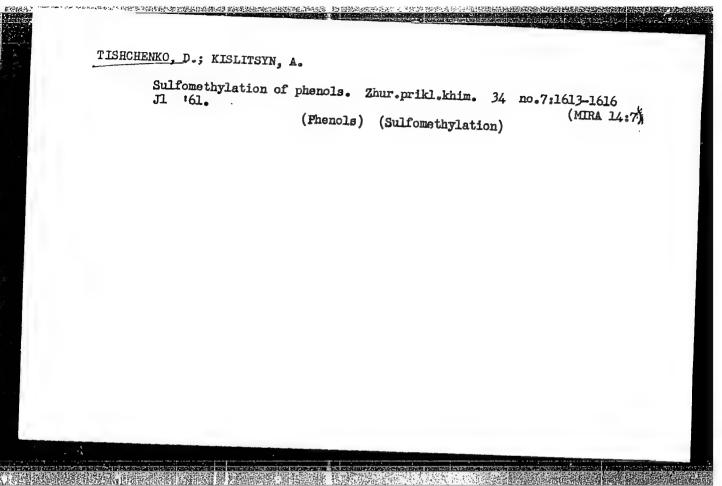
the Ukrainian Academy of Sciences, Khar'kov)

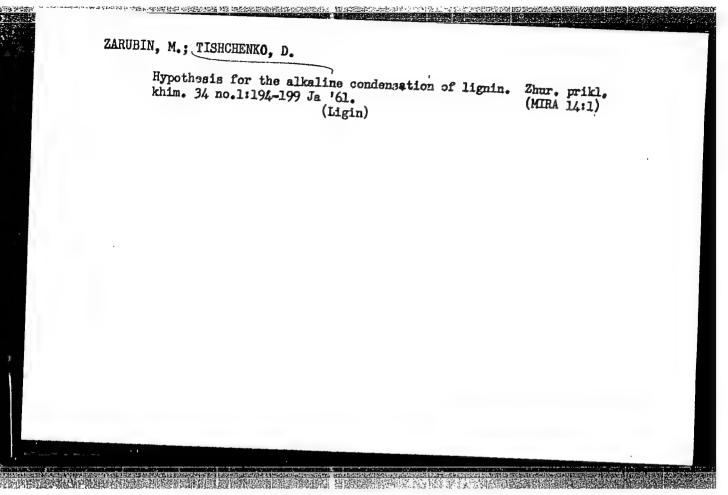
SUBMITTED:

September 10, 1962

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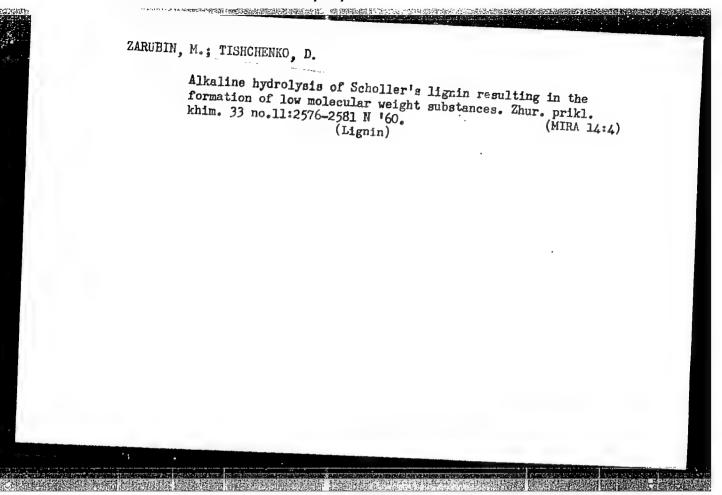


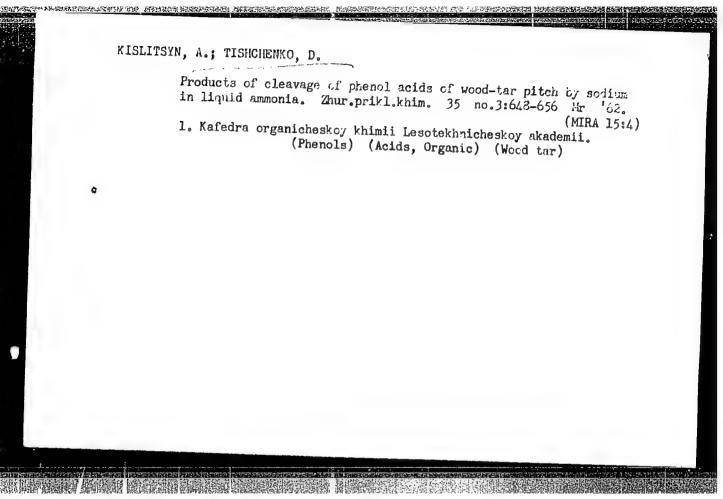
CHIRKIN, G.; TISHCHENKO, D.

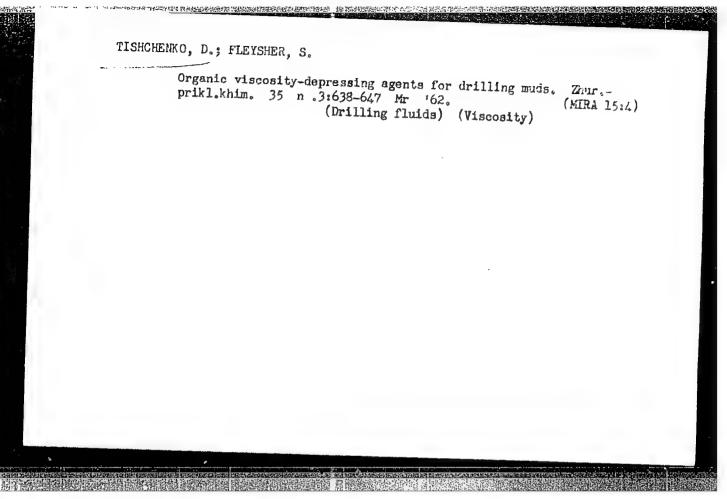
Redox reactions in alkali cooking of wood. Zhur.prikl.khim. 35 no.1:
153-159 Ja *62. (MIRA 15:1)

1. Lesotekhnicheskaya akademiya imeni S.M.Kirova.
(Oxidation-reduction reactions) (Woodpulp)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810017-6"







AUTHORS:

Kislitsyn, A., Tishchenko, D.

307/80-32-2-28/56

TITLE:

Methods for Simplifying High-Molecular Substances of Pitch (Sposoby uproshcheniya vysokomolekulyarnykh veshchestv peka)

PERIODICAL:

Zhurnal prikladnov khimii, 1959, Vol XXXII, Kr 2,

FP 391-395 (USSR)

ABSTRACT:

The resins obtained in the thermolysis of wood contain from 30 - 70% pitch. The composition of pitch is investigated here in order to find new fields of application for it. The tested samples contained 24.8% neutral substances, 21.4% phenols, and 42.7% acids. After treatment with metallic sodium the phenolacids were decomposed to substances soluble in ether with a molecular weight of 300 - 500 (34%) and to substances soluble in an alcohol-acctone mixture with a molecular weight of about 800 (60%). The phenol-acids are linked by a carbon-carbon

Card 1/2

There are 9 references, 7 of which are Soviet, 1 Canadian, and

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lethoda for Si	implifying Nich-Molecular Substances and 1996 207/ -51-2-29/5
ASSOCIATION:	Laboratoriya organicheshoy khimil Desetekheidharacy Deserit Leningrad (Taboratory of Organic Commistay of Forest Technology Academy, Leningrad)
SUBMITTED:	June 27, 1997
Card 2/2	

AUTHORS:

Zarubin, M., Tishchenko, D.

SOV/80-32-2-29/56

TITLE:

Alkaline Hydrolysis of Scholler Lignin With the Production of Low-Molecular Substances (Shchelochnoy gidroliz lignina Shollera s polucheniyem nizkomolekulyarnykh veshchestv)

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2, pp 395-399 (USSR)

ABSTRACT:

Heating of technical lignins in alkaline solution produces low-molecular compounds of phenol type. Their molecular weight is 400 or less. The ether-soluble compounds contain 75% C and 6.3% H. These substances exceed 50% of the lignin weight. There is 1 table and 14 references, 6 of which are Soviet, 4 Swedish, 2 German, 1 Canadian, and 1 Finnish.

SUBMITTED:

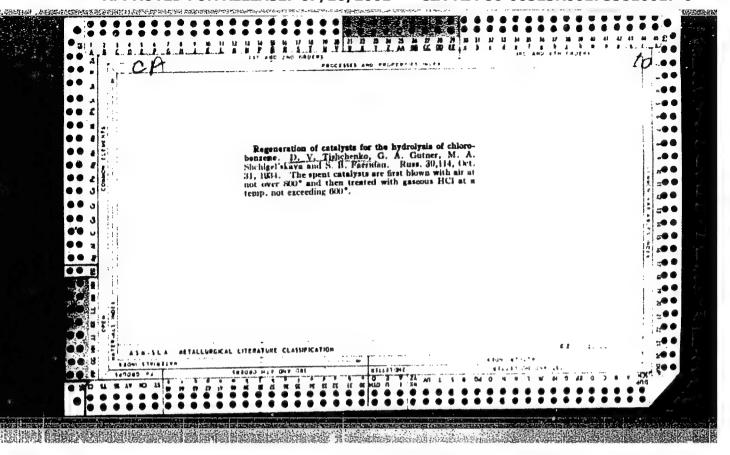
August 29, 1957

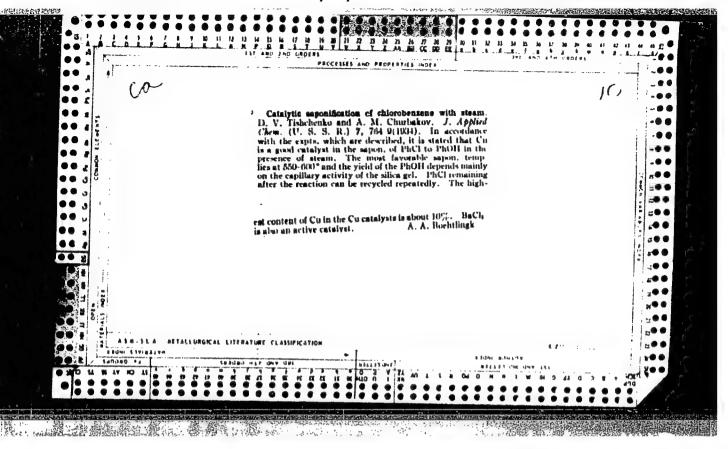
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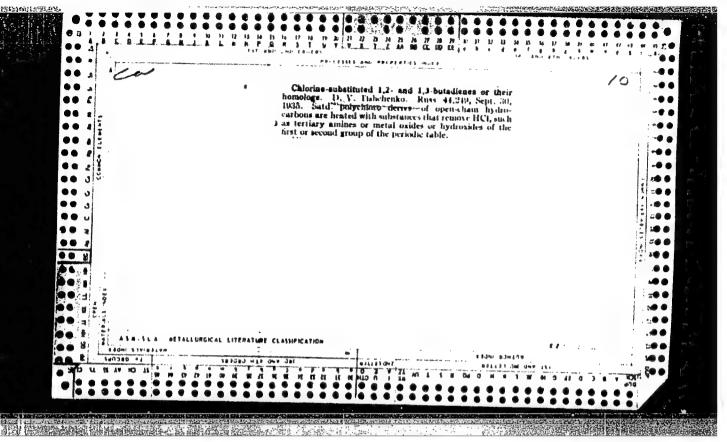
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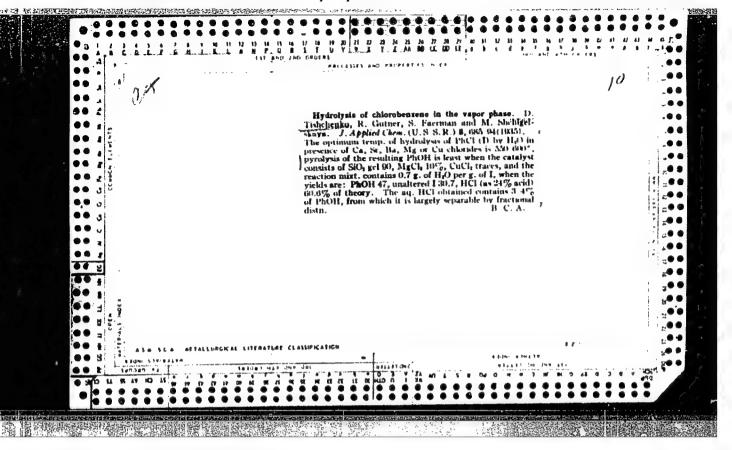
TISHCHENKO Deitrius Icel fowich: SHCHEPROV, S.V., kandidat istoriches ikh nauk, redaktor; USHOMIRSKIY, M.Ya., redaktor izdatel stva; SHLYK, M.D., tekhnicheskiy redektor

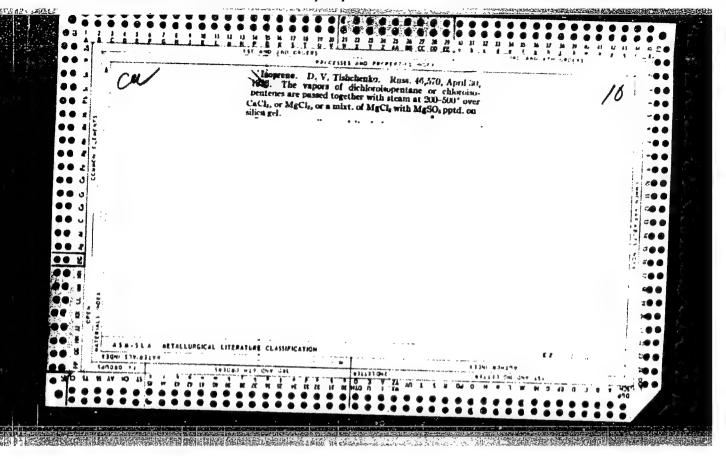
[Appearance of the modern industrial proletariat in Russia. First steps of the workers' movement. Lecture material for the course "History of the Communist Party of the Soviet Union."] Poisvlenie sovremennogo promyshlennogo proletariata v Rossii. Pervye shagi rabochego dvizheniia. Materialy k lektsii po kursu "Istoriia KPSS." Moskva, Gos. izd-vo "Sovetskaia nauka," 1957. 30 p. (MIRA 10:9) (Labor and laboring classes)

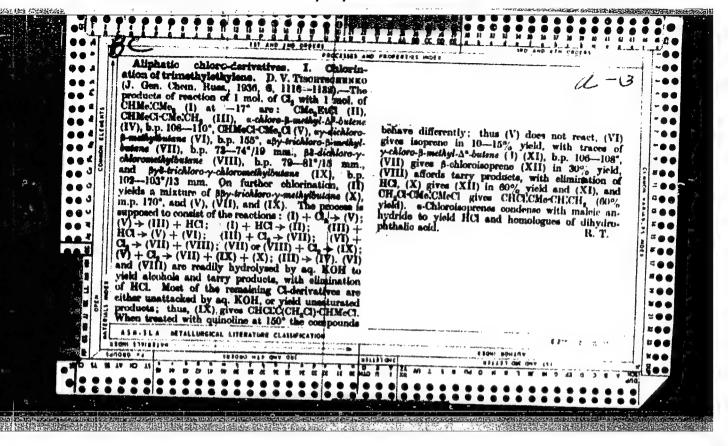


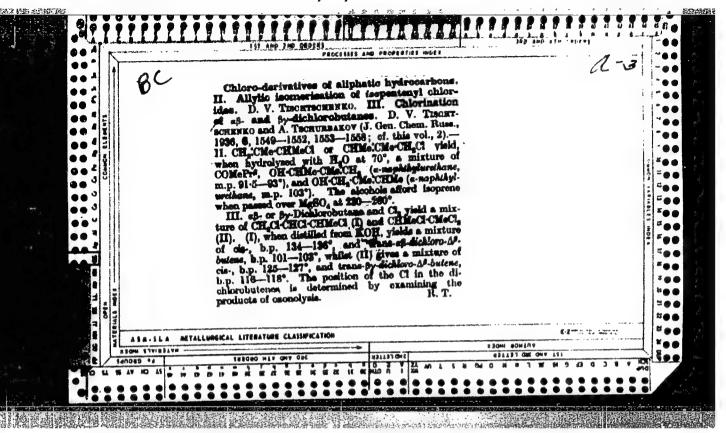






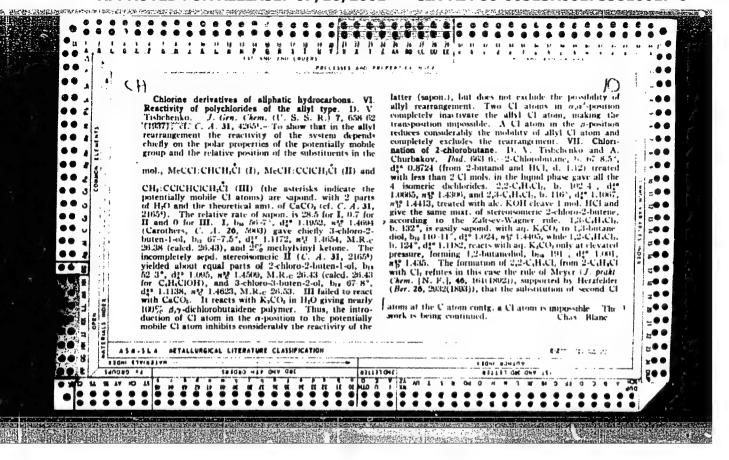


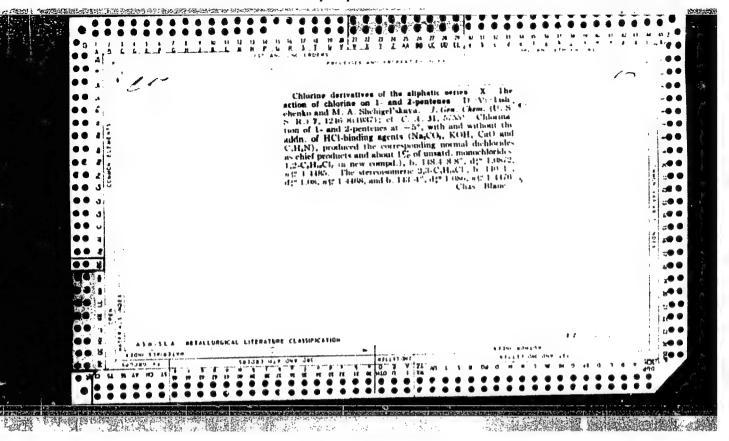


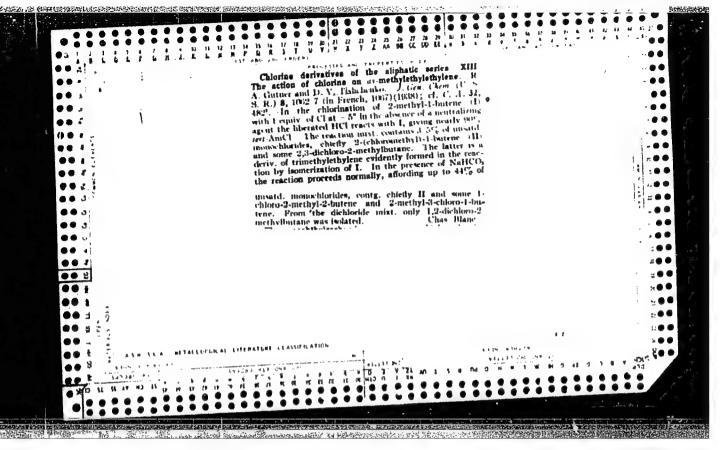


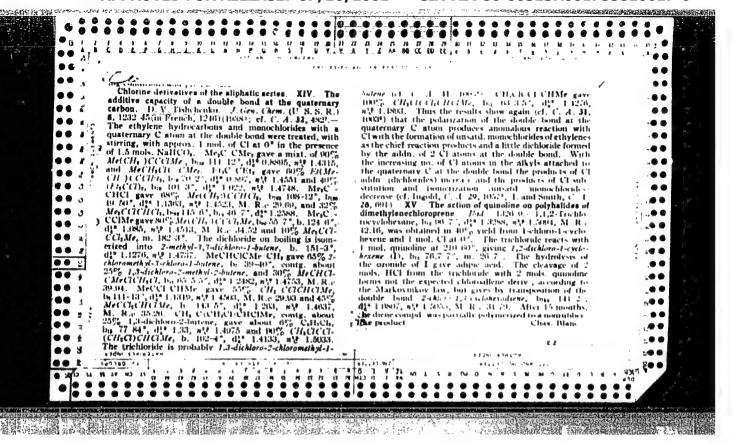
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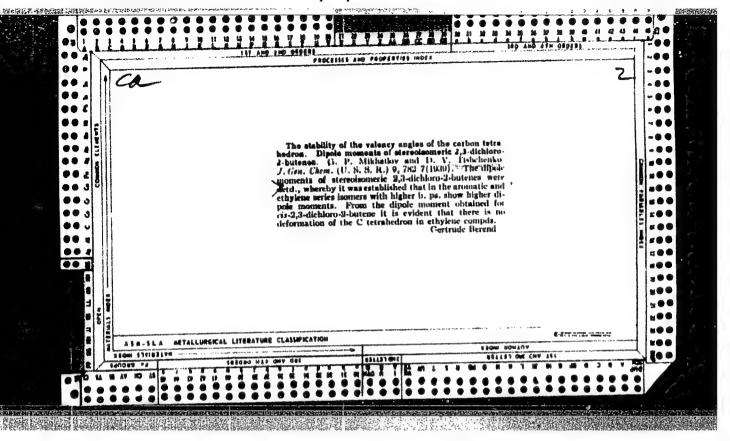
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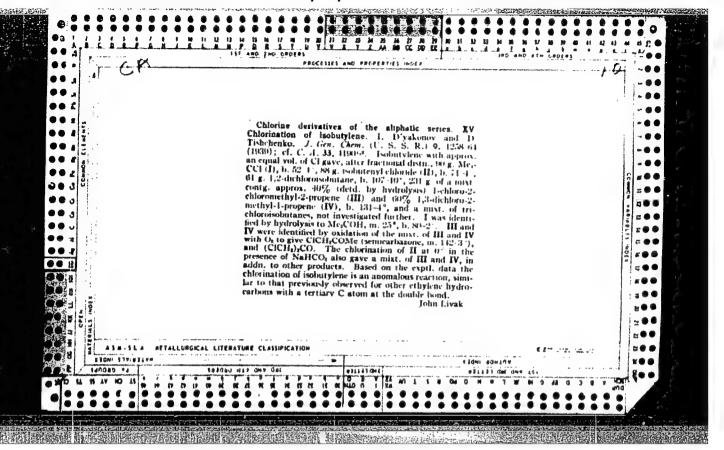


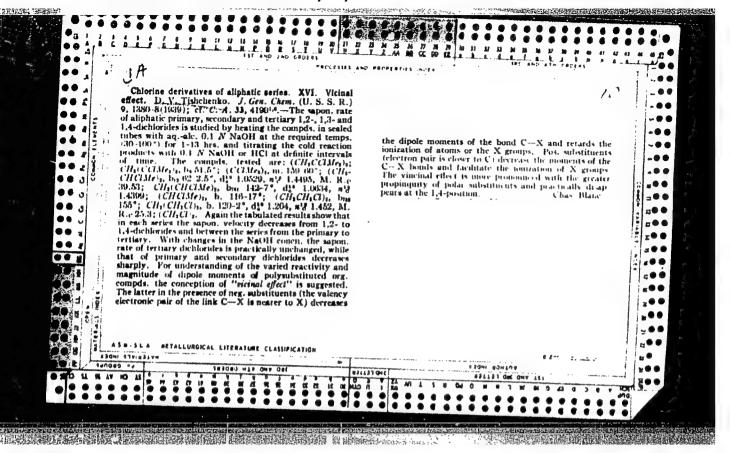


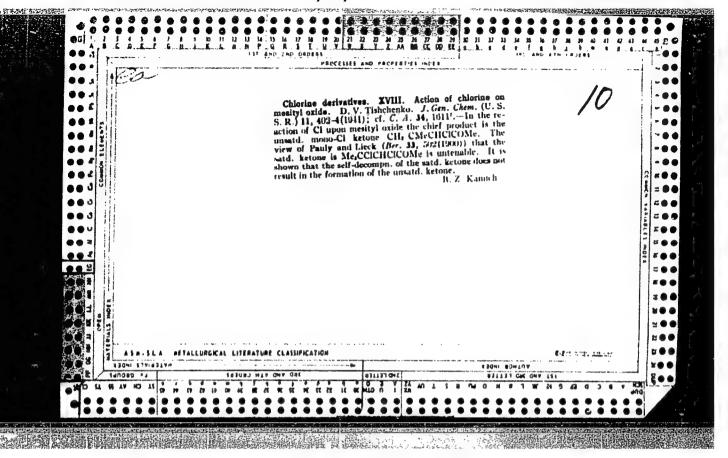


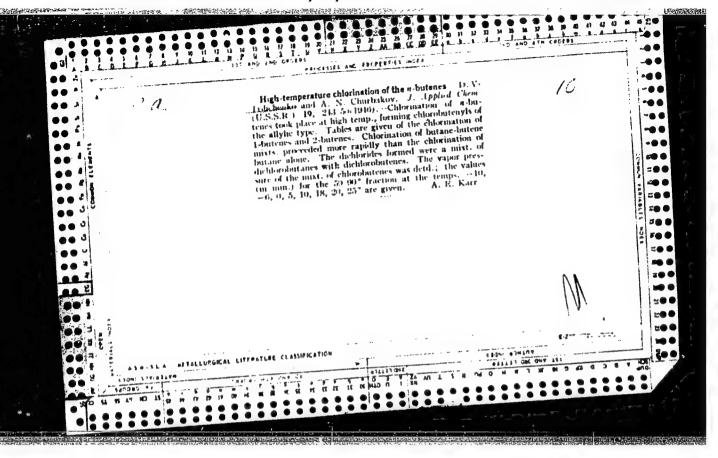












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	USSR/Chemistry - Unsaturated Compounds Mar 1947 Chemistry - Ethylene
	"A General Method for Obtaining 1,3-Diene Compounds from Corresponding Saturated and Ethylene Hydro- carbons," D. V. Tishchenko, 10 pp
	"Zhur Obshch Khim" Vol XVII, No 3
	Description of the method, a catalytic splitting off of HCl in the presence of water vapor.
-	15170

TISHSHSTRO, D.

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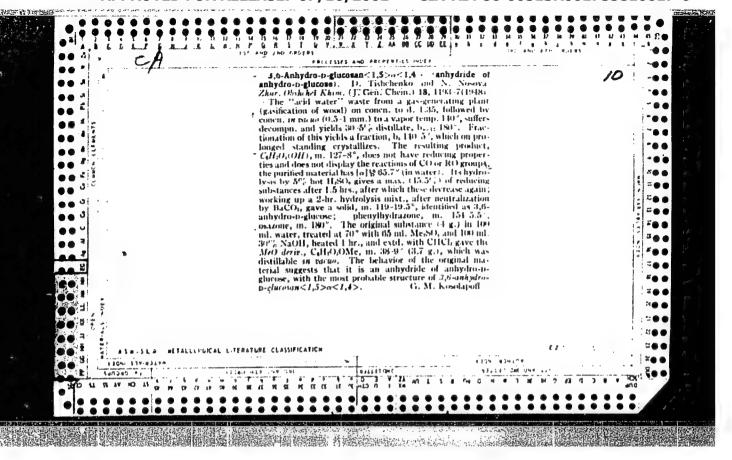
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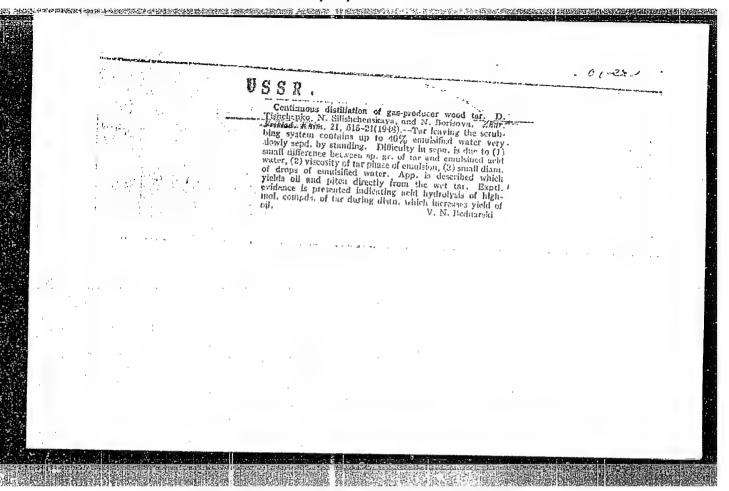
USSR/Chemistry - Alkyl Chloridgs Jan 1948 Chemistry - Chlorine Substitution

"Research in the Field of Chlorine Derivatives: II, Effect and Order of Substitution of Hydrogen Atoms by Chlorine in Chloroalkyls," D. Tishchenko, N. Zhokhovets, $8\frac{1}{2}$ pp

"Zhur Obshch Khim" Vol XVIII (LXXX), No 1

Studies of the effects of chlorine on 1 and 2 chlorpentane. Observed that amount of dichlorides obtained agreed completely with theoretical calculations. Theory of alternating polarity does not apply to subject studies. Chemical inertness of boundary polyfluorides and poly-chloro-fluorides is partial vicinal effect. Submitted 3 Jan 1947.





TISHCHERKO, D. PA 15/49 T13

USSR/Chemistry - Generators, Gas Chemistry - Analysis Sep 48

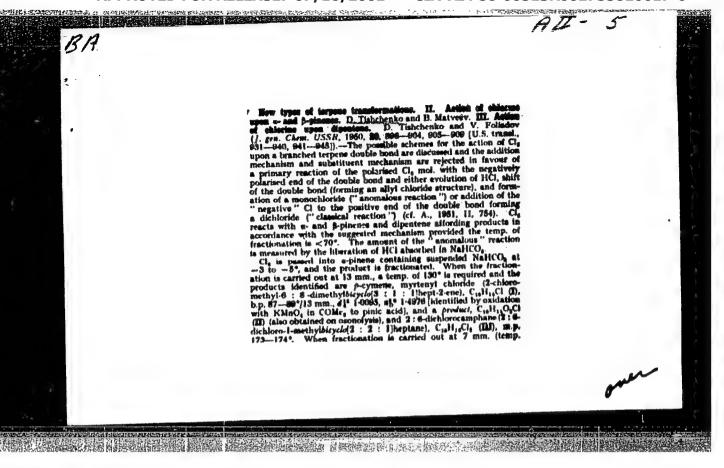
"Chemical Composition of Acid Waters Obtained From Wood-Fed Gas Generators," D. Tiehchenko, K. Bardysheva, N. Nosova, Cen Sci Res Lumber Chem Inst, $8\frac{1}{4}$ pp

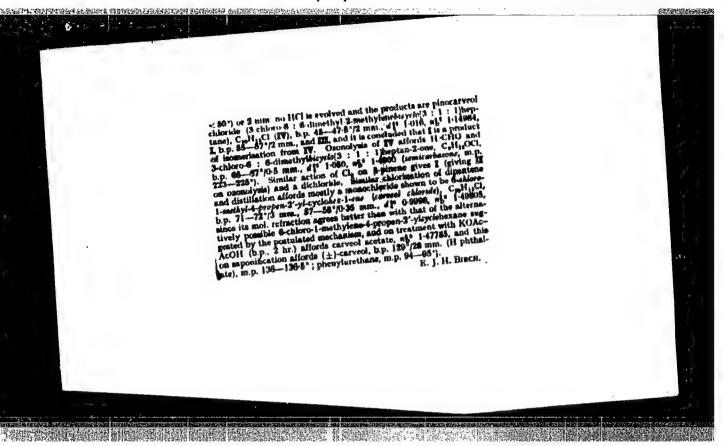
"Zhur Prikled Khimii" Vol XXI, No 9, 74776 = 34

Pitch and acid water are by-products during purification of gas obtained in wood-fed gas generators. Describes chemical analysis of acid water.

15/49T13

"A new type of transformation of terpenes." (p. 563)
SO: Journal Of General Chemistry, (Zhurnal Obshchei Khimii), 1950, Vol. 20, No. A.





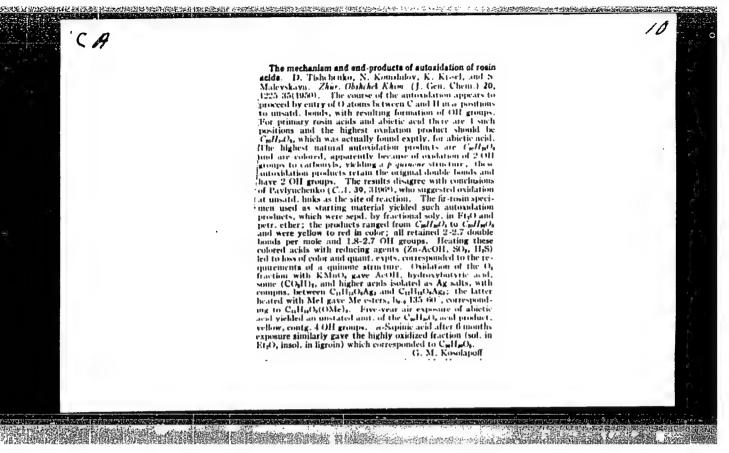
D. Tishchenko and T. Danilova - "A new type of terpene transformation. IV. The action of chlorine on terpinolene and santene." (p. 998)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1950, Vol. 20, No. 6.

TISHCHENKO, D.

D. Tishchenko and A. Khovanskaya - "A new type of terpene transformation. V. Reaction of chlorine with 3-carene." (p. 1003)

50: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1950, Vol. 20, No. 6.



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TISHCHENKO, D.

USSR/Chemistry - Fluorocarbons

Sep 51

"Vicinal Effect. II. Anomalous Properties of Fluorocarbons," D. Tishchenko. Chair of Org Chem, Forestry Eng Inst imeni Kirov

"Zhur Obshch Khim" Vol XXI, No 9, pp 1625-1632

Proposes explanation for 11 different phys chem anomalies in properties of fluorocarbons on basis of concept of "vicinal effect" (effect of proximity). According to this concept the C-F bonds in fluorocarbons are almost or completely homeopolar, with resultant effects on properties of compds.

191T41

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810017-6"

VASIL'YEV, L. (g. Tyumen'); CHICHKO (g. Kiyev); STARODUB, D. (g. Kiyev);

KALUZHSKIY, G. (g. L'voo); SHIRHOV, V.; HERENIN, A.; ORLOY, I.;

KALUZHSKIY, V. (Kuybvshev); BYCHININ, I. (Kuybyshev); HASHKO, V.;

FERUK, V. (Kuybvshev); ISTYUFEYEV, V. (Leningrad); GATSANYUK, Y.

(Chernigovskaya obl.); SKURKO, L.; HAPVUK, M.; GUHANOY, L.

(Krasnodar); TISHCHENKO, D. (st. V. Sadovaya); IEFIMOV, M.S.

(Krasnodar); TISHCHENKO, D. (st. V. Sadovaya); IEFIMOV, M.S.

(Leningrad); FENOROY, V.; SUKHOV, A.; TIMOSHENKO, I. (Omskaya

oblast'); KRIVTSUN, B. (Khar'kov); HARANTSEV, N. (Fedosiya).

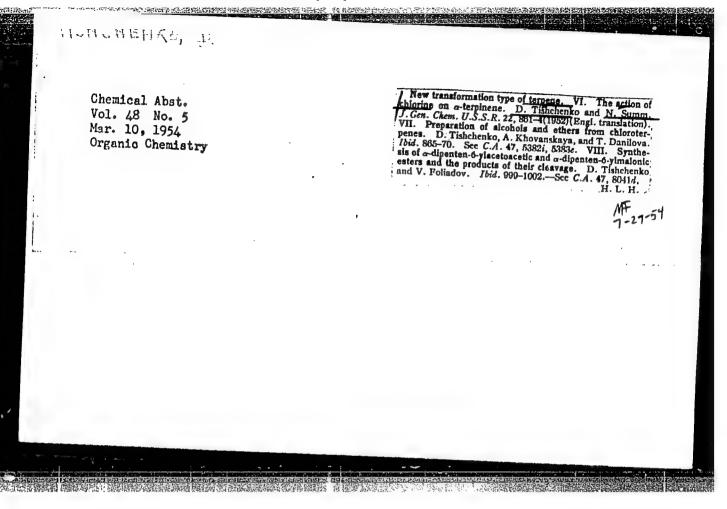
Exchange of experience. Radio no.1:31,32,35,39,40. Ja '59.

(MIRA 12:3)

(Hadio)

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDF

CIA-RDP86-00513R001755810017-6



DANILOVA, T.

Terpenes

New type of terpene transformations. Fart 7. Freparation of alcohols and ethers from terpene hydrochlorides., Zhur., ob. khim., 22, no. 5, 1952

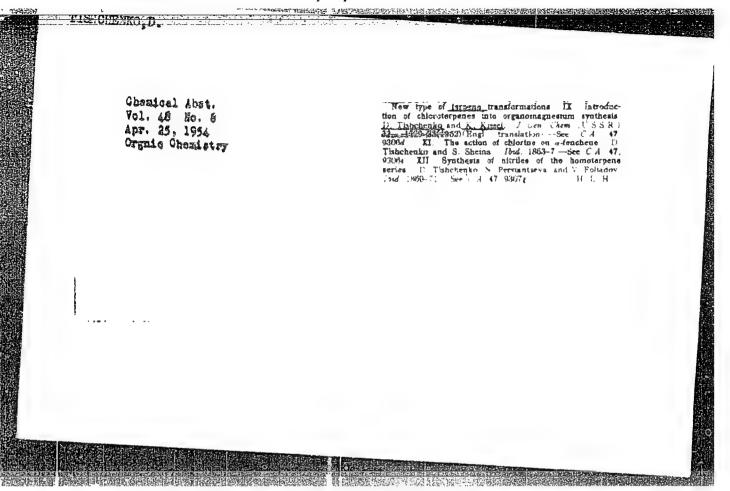
Monthly List of Russian Accessions, Library of Congress November 1952. Unclassified.

TISHCHENKO, D., FOLYADOV, V.

Terpenes

New type of terpene transformations. Part 8. Synthesis of terpenylacetoacetic and terpenylmalonic esters and their cleavage products. Zhur., ob. khim. 22, no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, HOVLIBLE 1952



TISHCHENKO, D.; FOLIADOV, V.

New type of terpene transformations. X. Synthesis of homoterpenes. Zhur.

(CA 47 no.18:9306 '53)

(MIRA 5:9)

TISHCHENKO, D.; SHEINA, S.

New type of terpene transformations. XI. Action of chlorine on q-fenchene. CA 47 no.18:9306 '53)

XI. Action of chlorine on q-fenchene. (CA 47 no.18:9306 '53)

1. S.M.Kirov Academy of Forestry.

・・・・・・・ マルを Aの高端 発信を与びがある。 A 中央 A を表現

TISHCHENKO. D.; PERSIANTSEVA, N.; FOLIADOV, V.

New type of terpene transformations. XII. Synthesis of nitriles of the homoterpene series. Zhur. Obshchey Khim. 22, 1829-32 '52. (NIRA 5:11)

 burners.

wood and sawdust and use of this gas at power plant

kerosene fraction; generation of gas from waste of wood by heating it in a high-boiling (275-280°)

and in driers equipped with flameless combustion

bined; distillation and complete chem conversion duction of superphosphate from apatite are com-

D. TICHCHENKO,

USSR/Chemistry - Wood and Cellulose

Jun 52

Cellulose, Leningrad, 28 - 31 January 1952," D. V. Tishchenko "Conference on the Chemical Treatment of Wood and

"Zhur Prik Khim" Vol XXV, No 6, pp 673-676

phosphoric acid or treatment with silicone resins; 65-70% etc., from furfural; the possibility of fireand other chemotherapeutic agents) with a yield of production of maleic acid, 5-nitrofurfural diacetate Among others, the following subjects were discussed: proofing pressed wood plates by esterification with (starting material for the synthesis of furacylin

518It

Jun 52

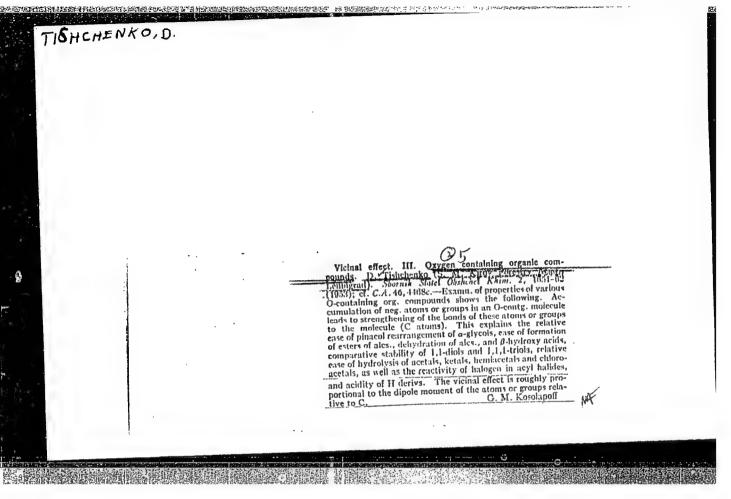
USSR/Chemistry - Wood and Cellulose

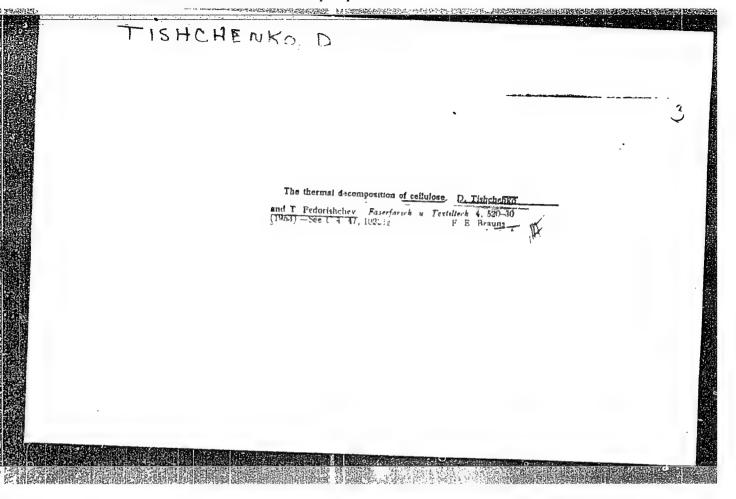
(Contd)

the theoretical and technological aspects of a process in which hydrolysis of cellulose (in the

form of sawdust) with conc sulfuric acid and pro-

218Th0





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Chemical Abst. Vol. 48 Apr. 10, 1954 Organic Chemistry	of hloring to the there of the there is the
	NOH gave a little dehydroterpene identical with the above and the terpenol CaHaO. The latter heated with alc. and the terpenol CaHaO. be 66-8°, dep 0.942, set 1 4831°. O. M. Kosolanoff. Spielded the 2,4-dinitrophenylhydrazone of PhiCHCHO. Apparently the desired PhiC(SH)CHO decompd. interpretable of the control of the

。 一年440.5.1 所表码是新,但是全国国际公司国际支持。 至其100 lishchenko

New type of transformations of terpenes. XIV. Reaction of chloring with camphene. D. Fishchenko. Zhur. Obshchel Khim. 23, 1002-13(1953)—C.A. 47, 0381d; 48, 3933c. 481g.—Chlorination of camphene (for treinique see previous papers) in the presence of enough CCl. to discove the substance (350 g. cumphene, 150 g. CCl., 200 g. NaIICO, 100 g. KMnO., 750 ml. IICl) gave 56% products products: chlorocamphene (I), 7-chlorotricyclene (II), and latter forms, contrary to the Bredt rule (cf. T., C.1, 44, "normal" reaction. Ozonolysis of I gave 30% camphenit

one, 15% HCl, and the trichloride $C_{10}H_1$, Cl_2 , m. $127-5^\circ$, which is satd. III is readily sapond, through the acetate, to the corresponding terpenol, m. $59.5-60.0^\circ$; the acetate, b. $73-4^\circ$ d. 0. 0.991, n^*2 1.4731. This camphenol with other is present in this reaction, the camphenol isomerices 1.4676, yielding camphenilanaldehyde, semicarbazone, m. $142-3^\circ$; if to the corresponding aldehyde, by $88-9^\circ$, d: 0.525, n? $207-8^\circ$, and another unknown semicarbazone, m. $148-9^\circ$, acid vapors is transformed into camphen (inactive form, 176-8°). The initial mixt, of I, II, and III is sepd. after I, b_1 , $53-4^\circ$, d: 0.108, n: 0

enol by 123-5°, do 0.917, while lightly a treation run in scaled tube at 210° gave the other, by 123-21°, do 0.916, and 1.4729. The other heated with HC gave a materializate by the hydr and its Anatoli. The cred 1, H, and HI must, with m, 90-110°, along with other products. I with KMnO camplenite acid, m, 150-1°, and dehydropentane gave a hydrocarbon, m, 36°, 2°, b, 151-1°, identified as tricyclene. Camplenial H plath, date with aq, kMnO gave a neutral product without CHO groups, apparently a hed as tricycleus. Campusnot it puriscate with act & Mirola gave a neutral product without CHO groups, apparently a

diketo alc., CallaO₁, m. 169-70°. Camphenol with 4% KMnO₁ gave ketopinic acid, CallaO₃, n. 290-2° Stronger oxidation with concil. aq. KMnO₁ gave eis-apocomphoric acid, m. 208-9° (anhydride, m. 175-6°), irecamphoranic acid, m. 208-9°, and AcOH. The ozonolysis products of I appear to contain a lactone, which could not be isolated in a pure state, but was detected by threaton with hot NaOH.

G. M. Kosolapoff

TISHCHENKO, D.; SHEINA, S.

New type of terpene conversions. Part 15. Action of chlorine upon -fenchene.
Zhur.ob.khim. 23 no.8:1405-1406 Ag '53. (MLRA 6:8)

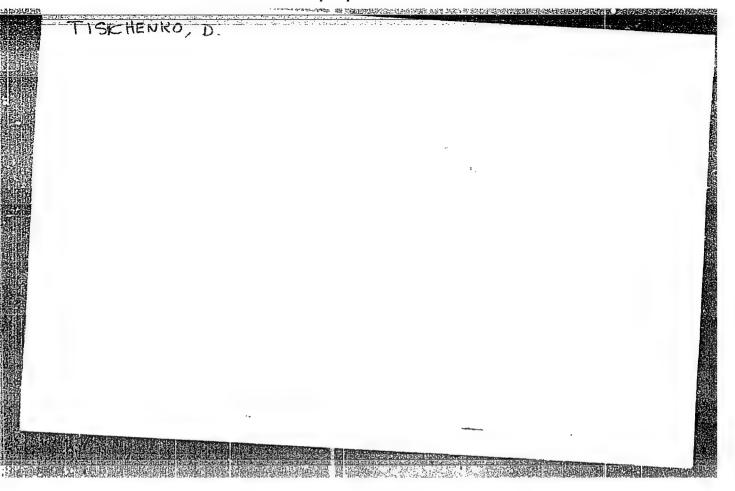
1. Kafedra organicheskoy khimii Lesotekhnicheskoy akademii im. S.M.Kirova. (GA 47 no.22:12312 '53)

(Fenchene)

TISHCHENKO, D.; UVAROV, I.

New type of terpene conversions. Part 16. Structure and certain conversions of camphene dichloride. Zhur.ob.khim. 23 no.8:1407-1414 Ag '53.

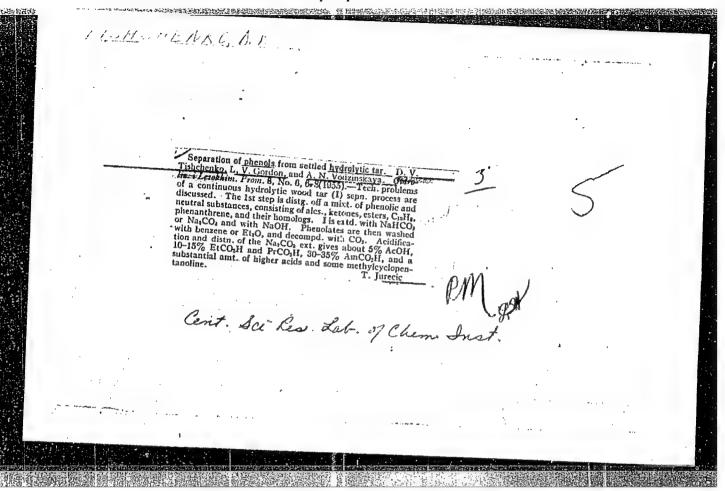
1. Kafedra organicheskoy khimii Lesotekhnicheskoy akademii im. S.M.Kirova. (Camphene dichloride)



TISHCHENKO, D.; FEDORISHCHEV, T.

Thermal depolymerization of cellulose. Zhur. Priklad. Khim. 26, 393-6 '53. (CA 47 no.19:10221 '53)

(MIRA 6:4)



15.11 CHENTO

USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry Products. Cellulose and Its Manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63343

Author: Tishchenko, D. V., Vodzinskaya, A. N., Filippov, L. A.

Institution: -None Freatry Jech. Geri.

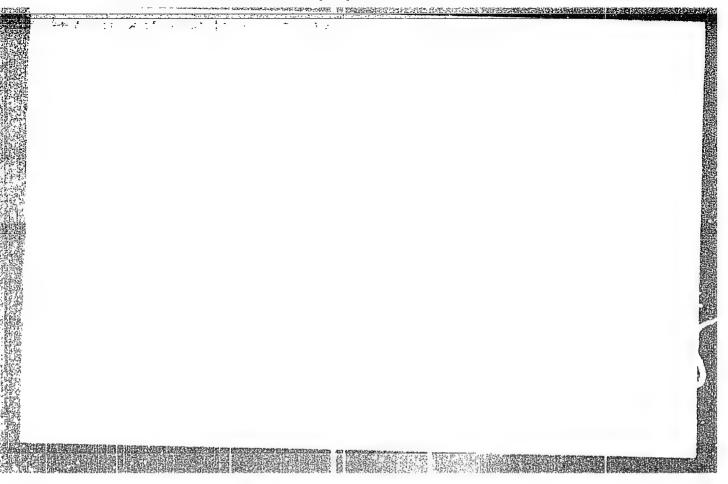
Title: Recovery of Guaiacol from Wood-Chemical Phenols

Original

Periodical: Gidroliznaya i lesokhim. prom-st, 1956, No 3, 6-8

Abstract: Two methods have been worked out for recovery of guaiacol from woodchemical phenols: (1) by formation of acid guaiacolate of ammonia on interaction of NH3 with the phenols (180-2120 fraction); at low temperature the guaiacolate crystallizes out is separated by filtration from the admixtures and is decomposed at 1000 to yield guaiacol and ammonia; (2) by precipitation of Mg guaiacolate from alkaline solution of phenolates in the process of separation of wood-resin oils (180-2120 fraction) into phenols, acids and neutral substances. Mg and NaOH are regenerated. Pure crystalline guaiacol has been isolated with a yield of up to 75% of the amount contained in the oil.

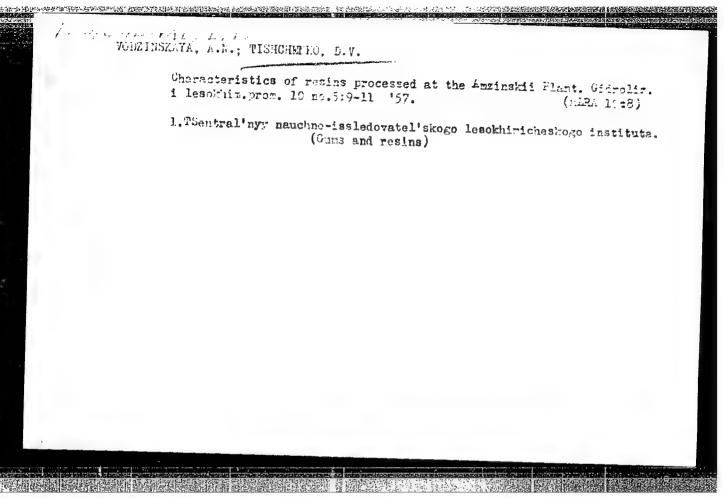
Card 1/1



TISHCHENKO, D.; FOLIADOV, V.; MOSOVA, N.

Hydrolysis of methoxyphenols. Zhur.prikl.khim. 29 no.9:
1447-1449 S '56.

(Hydrolysis) (Phenol)



482

AUTHORS:

ALEXAND AND COLUMN TO NOT THE HEAD STREET, THE STREET

Tishchenko, D.; Abramova, A.; Yarzhemskaya, Ye.

TITLE:

Additiveness of a Double Bond in Quaternary Carbon. Reaction of Chlorine with 1,3-Dienes (Additivnaya sposobnost' dvoynoy svayazi pri chetvertichnom uglerode. Deystviye khlora na 1,3-dieny).

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, Vol. 27, No. 1, pp. 227-233 (U.S.S.R.)

ABSTRACT:

In order to test the applicability of the M. D. L'VOV reaction to other 1,3-dienes with quaternary carbon atoms, the authors investigated the reaction of Cl with four conjugated dienes with central and end disturbances of the conjugation. The L'vov reaction was found to be the basic addition reaction in 1,4 and 1,2 positions and subordinate in 3,4 position. A new exception to the Thiele law was established for 1,3-dienes according to which double bonds can react separately during central and end disturbances caused by alkyls. The study of the structure of chlorodienes which appear to be allyl type chlorides (their chlorine atom was slightly saponified) was connected with certain known difficulties due to the allyl regroupings. In two cases ozonolyses showed the monochloride to be a mixture of allyl isomers. If the reaction between

Card 1/2

Additiveness of a Double Bond in Quaternery Carbon

the chlorine and one of the equivalent bonds is abnormal, the negative induction effect of the chlorine atom will polarize the remaining double bond in the diene monochloride and depolarize the newly forming bond.

The remaining double bond being subjected to the coordinated effect of two methyl groups and a Cl-atom becomes more reactive than the double bonds of the basic hydrocarbon which leads to the formation of diene dichloride. It was observed in three separate cases that the Cl-atom depolarizes monochloride double bonds and they remain intact.

There are 10 references, of which 8 are Slavic.

ASSOCIATION:

Leningrad Forestry Engineering Academy (Leningradskaya Leso-

tekhnicheskaya Akademiya)

PRESENTED BY:

SUBMITTED:

February 10, 1956

AVAILABLE:

Card 2/2

AUTHORS:

Tishchenko, D. and Prokhorchuk, T.

79-2-22/58

TITLE:

New Type of Terpene Conversions. Part 17. Reaction of Chlorine with omega Chlorocamphene (Novyy tip prevrashcheniy terpenov, XVII. Deystviye khlora na omega-khlorkamfen)

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, vol 27, No 2, pp. 377-379 (U.S.S.R.)

ABSTRACT:

Reference is made to the anomalous M.D.L'vov reaction which during the reaction of chlorine with camphene showed the lowest specific weight in comparison with other terpenes. It was proven during the chlorination of omega-chlorocamphene that the specific weight of the "anomalous" reaction should be higher than in the case of camphene because the negative inductive reaction of the Cl atom strengthens the polarization of the double bond necessary for anomalous reaction. The presence of unsaturated comphene dichlorides and dichlorides of bicyclo-(1,2,2-)-3-dichloromethyl-2,2-dimethylheptene-3 in the mixture was proven in

Card 1/2

spite of the Bredt statement to the contrary. The percentage of the

New Type of Terpene Conversions. Part 17

79-2-22/58

"anomalous" reaction was established at 63.3 and 69.5 respectively.

There are 3 references, 2 of which are Slavic

ASSOCIATION:

Leningrad Forestry Engineering Academy

PRESENTED BY:

SUBMITTED:

March 9, 1956

AVAILABLE:

Library of Congress

Card 2/2

AUTHORS:

Tishchenko, D. and Summ, N.

79-2-23/58

TITLE:

About the Structure of Pyronenes (O stroyenii pironenov)

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, vol 27, No 2, pp. 379-384 (U.S.S.R.)

ABSTRACT:

Investigations were conducted to establish the authenticity of the structural formulas of pyronenes as introduced by Dupont-Dulou (2). None of the formulas were found to have sufficient bases. Ozonolysis and oxidation of beta-pyronene with potassium permanganate showed that it is not identical with the beta-pyronene described by Dypont but rather a mixture of more than 80% 1,1,3-trimethyl-2-methylenecyclohexene-3 and less than 20% of 1,1,2,3-tetramethylcyclohexadiene-2,4. The correctness of structural formulas for gammapyronene, alpha and delta-pyronenes was also found as highly doubtful. It is shown how unreliable structural

Card 1/2

formulas can be when they are written on the basis of conversions not excluding the isomerization phenomena, certain qualitative reactions,

Lenengra & Forest Jack . Inst, im S. M. Kiew

About the Structure of Pyronenes

79-2-23/58

There are 8 references of which 1 is Slavic.

ASSOCIATION:

Forestry Engineering Academy imeni S. M. Kirov

PRESENTED BY:

SUBMITTED:

February 10, 1956

AVAILABLE:

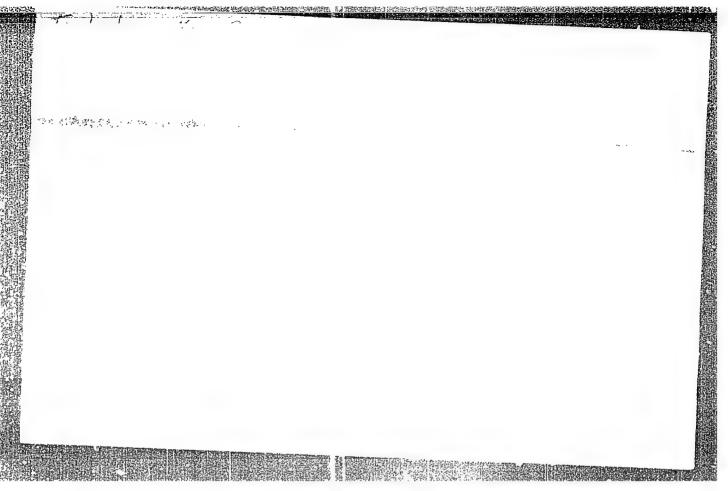
Library of Congress

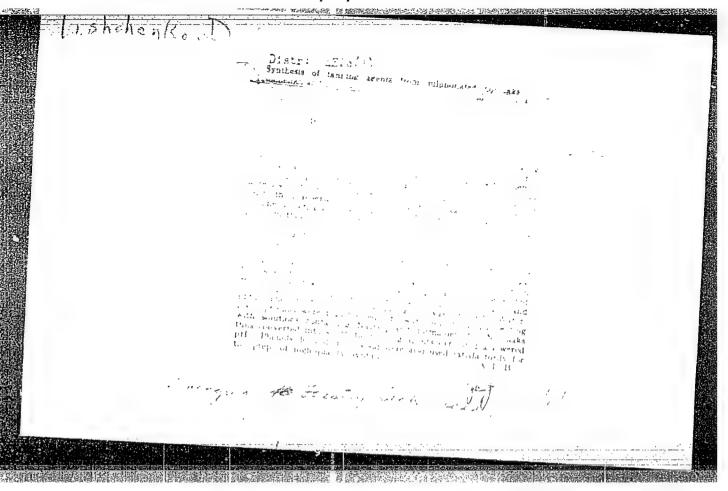
Card 2/2

TISHCHENKO, D.; DANILOVA, T.

New types of terpene conversions. Zhur. ob. khim. 27 no.3:794-799
(MIRA 10:6)

1. Leningradskaya lesotekhnicheskaya akademiya.
(Terpenes) (Garene) (Hensene)





TISHCHENKO, D.V.: RUES, Scholk, Ye.H.

Sulfate cooking at high temporatures. Bum.prom. 32 no.6:7-9 is 157.
(PLRA 10:8)

1.Ordena Lenina Lesotekhnicheskaya akademiya im. 5.H. Kirova.
(Woodyulp industry)

11:1)

KOVALEV, V.; TISHCHENKO, D.

Herbicides from phenols of tars produced by the destructive distillation of wood. Zhur.prikl.khim. 31 no.11:1708-1715 N '58.

1. Lesotekhnicheskaya akademiya imeni S.M. Kirova.

(Phenols) (Herbicides) (Wood distillation)

TISHCHERKO, D.; SHEINA, S.

Demethylation of methyl-phenols. Zhur.prikl.khim. 31 no.12:
1876-1879 D *58. (MIRA 12:2)

1. Lesotekhnicheskaya akadewiya imeni S.M. Kirova.
(Gresol) (Methylation)

AUTHOR:

Tishchenko, D.

SOV/80-59-1-25/44

TITLE:

Acid Condensation of Lignin (Kislotnaya kondensatsiya lignina)

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Nr 1, pp 157-166 (USSR)

ABSTRACT:

The author tries to establish some relation between the modern concepts on the lignin structure and the phenomenon of its "condensation" or "disactivation". He draws an analogy between the chemistry and technology of phenolaldehyde resins and the chemistry of the processes of lignin condensation. He points out that phenols react with aldehydes in the presence of alkalis and acids leading finally to the formation of polycondensates, although the condensation does not take place if one of the components of the reaction contains a sulfogroup [Ref. 3]. Therefore the author holds that the phenomenon of condensation of the wood pulp lignin under various reactions and also the protective (against acid condensation) effect of a preliminary introduction of sulfogroups are sufficiently well explained by the analogies from the chemistry of phenol-aldehyde condensates. He disagrees with the competitive viewpoints of Erdtmann / Ref. 24 / and Lindgren Ref. 32 and adheres to the opinion of Harris and Bergstrom Ref. 33 though pointing out the insuffi-

Card 1/2

Acid Condensation of Lignin

sov/80-59-1-25/44

There are 33 references, 4 of which are Soviet, 10 Swedish,

7 German, 5 English, 3 Canadian and 4 unidentified.

SUBMITTED:

May 22, 1957

Card 2/2

KROMINA, L.V.; TISHCHENKO, D.V.

Chemical composition of soluble spruce tar from a combustion chamber of a V.V. Pomerantsev's-type producer. Gidroliz. i lesokhim. prom. 17 no.3:18-19 '64. (MIRA 17:9)

1. Lesotekhnicheskaya akademiya im. S.M.Kirova.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810017-6"

KOZLOV, V.P.; TISHCHENKO, D.V.

Presence of abietenes and abietins in the neutral oils of the residual resins from the gasification of coniferous wood. Gidroliz. i lesokhim.prom. 18 no.1:12-13 *65.

1. Leningradslaya lesotekhnicheskaya akademiya im. S.M.Kirova.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810017-6"

STRUNNIKOV, V.N.; TISHCHERKO, D.V.

Chemical nature of water-soluble alkaline lignin. Thur. prikl. khim. 38 no.11:2545-2549 N '65. (MTRA 18:12)

1. Leningradskayu lesotekhnicheskaya akademiya imeni S.M. Kirova. Submitted April 14, 1965.

Organic visiosity-breaking agents for drilling succ. There prikinkhin. 38 ro. 112540-1538 N 165.

Laningradskaya lesotekhnicheekaya akademiya imani s.M. ribrovi. Submitted Cutober 15, 1963.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810017-6"